

The Physics of Solar-Wind/ Magnetosphere Coupling

Schedule for Puerto Vallarta November 3 - 8, 2006

	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday
morning						
afternoon						
8						
9		Session 1 <i>Tutorial Talks</i> 8:15-12:10	Session 3 <i>Solar-Wind Structures 1</i> 8:30-12:00	Session 5 <i>Solar-Wind Drivers</i> 8:30-12:00	Session 7 <i>Geomagnetic Storms 1</i> 8:30-11:50	Session 9 <i>Geomagnetic Storms 2</i> 8:30-11:40
10						
11						
12						
13						
14						
15		Session 2 <i>Solar-Wind Magnetosphere Coupling 1</i> 2:15-6:10	Free Time for Excursions	Free Time for Excursions	Free Time for Excursions	Session 10 <i>Solar-Wind Structures 2 + IHY</i> 2:00-5:40
16	Registration 4:00-7:30					
17						
18						
19		Reception 7:00-9:00	Session 4 <i>Posters + hors d'oeuvres</i>	Session 6 <i>Solar-Wind Magnetosphere Coupling 2</i> 6:00-9:10	Session 8 <i>Turbulence</i> 6:00-9:10	Conference Dinner 7:00-
20	meet up for dinner					
21						
22						

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Friday, November 3

4:00 - 7:30 p.m.
CONFERENCE REGISTRATION

7:30
meet up for dinner by the registration desk

Saturday November 4

Session 1

Tutorial Talks

Chair: Ennio Sanchez

8:15 a.m. - 12:10 p.m.

8:15 - 8:30

Welcoming remarks

8:30 - 9:20

Janet Lumann

STEREO in-situ Measurements: New Tools for ICME Diagnostics and Forecasting

9:20 - 10:10

Robert McPherron

Solar-Wind Drivers of Geomagnetic Activity During Corotating Interaction Regions

10:10 - 10:30

Break

10:30 - 11:20

Tuija Pulkkinen

Solar Wind - Magnetosphere Energy Transfer Processes During Magnetic Storms

11:20 - 12:10

Melvyn Goldstein

Observations and Simulations of Turbulence in the Solar Wind

Session 2

Solar-Wind/Magnetosphere Coupling-1

Chair: Anerico Gonzalez-Esparza

2:15 - 6:05 p.m.

2:15 - 2:45 (Invited)

Antonius Otto

Plasma Transport Associated with Magnetic Reconnection and KH Modes at the Magnetospheric Boundary

2:45 - 3:05

P. T. Newell, T. Sotirelis, K. Liou, and C.-I. Meng

A Nearly Universal Solar-Wind Magnetosphere Coupling Function Inferred from Ten Magnetospheric State Variables

3:05 - 3:25

X. Blanco-Cano, N. Omidi, and C. T. Russell

Solar wind coupling with Earth's magnetosphere

3:25 - 3:45

S. Hernandez, R. Lopez, M. Wiltberger, and J.G. Lyon(3)

Polar Cap Potential Saturation With Global MHD Simulations

3:45 - 4:05

Break

4:05 - 4:25

S. Baraka and L. Ben-Jaffel

Sensitivity Of The Earth Magnetosphere To The Solar Wind Activity: 3d Macroparticle Model

4:25 - 4:45

L. Kepko, N. M. Viall and H. E. Spence

Shock and Discontinuity Associated Periodicities in the Solar Wind and Magnetosphere

4:45 - 5:05

D. Vassiliadis, R. Selesnick, S. Kanekal, R. Weigel, and D. Baker

Dependence of the Electron Radiation Belt Response on Solar Wind Source Type

5:05 - 5:25

Ted Fritz

Energetic Particles in the Cusp and their Impact on Magnetospheric Processes

5:25 - 5:45

P. L. Rothwell and J. R. Jasperse

A Coupled Solar Wind-Magnetosphere-Ionosphere Model for Determining Ionospheric Electric Fields Using ACE Data

5:45 - 6:05

John R. Jasperse, Bamandas Basu, and Eric J. Lund

Gyrotropic Guiding-Center Fluid Theory for Turbulent Birkeland Current Sheets

7:00 - 9:00 p.m.

CONFERENCE RECEPTION

Sunday, November 5

Session 3

Solar-Wind Structures-1

Chair: Bob McPherron

8:30 a.m. - 12:00 p.m.

8:30 - 9:00 (Invited)

J. T. Gosling

Solar Wind Structures Related to Geomagnetic Storms

9:00 - 9:20

Alejandro Lara

Solar Cycle Evolution of Filaments and Coronal Mass Ejections

9:20 - 9:40

Joe Borovsky

The Mesoscale Structure of the Solar Wind: Implications for Large-Scale Flows and Small-Scale Turbulence

9:40 - 10:00

L. Jian, C. T. Russell, and J. G. Luhmann, and R. M. Skoug

Where Interplanetary Shocks are Born

10:00 - 10:20

Break

10:20 - 10:40

N. M. Viall, L. Kepko and H. E. Spence

The Relative Occurrence Rate of Discrete Frequency Oscillations in the Solar Wind

10:40 - 11:40

Audience Discussion

"Solar-Wind-Structures Issues"

Moderator: TBA

11:40 - 12:00

Solai Jeyakumar and A. Gonzalez-Esparza

MHD simulation of propagating CMEs and Magnetic Clouds

Session 4: Posters

6:00 - 9:30 p.m.

P1

I. A. Ansari

Diurnal and Seasonal Variations of Low Latitude Pc3 Geomagnetic Micropulsations with Kp Index

P2

Bamandas Basu and John R. Jasperse

Parallel electric fields in Birkeland current sheets

P3

R. A. Caballero-Lopez, H. Moraal, and F. B. McDonald

Anomalous Cosmic Ray Modulation: Effects of the Solar Wind Termination Shock and the Heliosheath.

P4

Pedro Corona and Alejandra Arciniega

Commutation Relation between Differential Operators and the Mean Value Operation

P5

Victor H De la Luz, Alejandro Lara, and Eduardo Mendoza

Simulations and Observations in the 5 meter Radio Telescope (RT5).

P6

Kelly Ann Drake and R. A. Heelis

Sources Of Variability In The Cross Polar Cap Potential During Southward Imf

P7

J. Falkenström, L. Rosenqvist, A. Vaivads, and J. Weygand

Spatial dependence of the local energy transfer across the magnetopause and the influence of interplanetary variation from Cluster observations

P8

Adriana Maria Gulisano, Sergio Dasso, Cristina Hemilse Mandrini, and Pascal Démoulin

Analysis of the Bias Introduced by the Minimum Variance technique in the determination of magnetic clouds orientation

P9

Michael Hesse, Masha Kuznetsova, and Joachim Birn

The Physics of Magnetic Reconnection at the Magnetopause

P10

Virgínia Klausner de Oliveira and Paulo Roberto Fagundes

Observations of Gravity Waves during Daytime at F-Region

P11

C. H. Mandrini, S. Dasso, M. L. Luoni, S. Nakwacki, G. Attrill, L. van Driel-Gesztelyi, P. Démoulin, and S. Pohjlainen

Coronal Mass Ejections and Magnetic Clouds: Their Combined Study

P12

G. Muñoz, R. Schwenn, G. Alfonso, A. Sánchez-Paredes, and G. García-Pioquinto

Design of a Spectrograph to obtain radial speed for Halo CMEs

P13

G. Muñoz, J. Cantó, A. Rudolf, and C. Becerril

Plane of the Sky Speed of CMES as a Multifractal phenomenon

P14

M. S. Nakwacki, S. Dasso, C. H. Mandrini, P. Démoulin and H. Elliot

Study of the Strongly Expanding "Nov 9-10, 2004" Magnetic Cloud

P15

F. Pitout, C.P. Escoubet, B. Klecker, and H. Rème

Cluster Survey of the Mid-Altitude Cusp: Dynamics, Morphology, and Plasma Properties

P16

Jean-Pierre Raulin, Vladimir S. Makhmutov, Emilia Correia, Rafael R.S. de Mendonça, Yuri I. Stozhkov, Pierre Kaufmann, Pablo Pereyra, Adolfo Marun, Hugo Levato, Osman Maksumov, Alexander N. Kvashnin, and Sergei V. Mizin

A New Cosmic Ray Detector Device for Solar-Terrestrial Phenomena Studies

P17

J. C. Samson

Explosive MHD Instabilities in the Solar Corona and the Earth's Magnetosphere.

P18

Darci Snowden and Robert Winglee

3D Multi-fluid Simulation of the Plasma interaction at Titan

Monday, November 6

Session 5

Solar-Wind Drivers

Chair: Joe Borovsky

8:30 a.m. - 12:00 p.m.

8:30 - 9:00 (Invited)

David F. Webb

Interplanetary Structures Related to Geomagnetic Storms

9:00 - 9:30 (Invited)

R.A. Howard

Coronal Mass Ejections: Recent Progress

9:30 - 9:50

Veronica Ontiveros and Amnerico Gonzalez-Esparza

Study of Causes in the Interplanetary Medium for Moderate and Intense Geomagnetic Storms

9:50-10:10

Break

10:10 - 10:30

A. Borgazzi, A. Lara, O. Mendes Jr., and R. Rosa

Low Period Fluctuations in CME Activity during Solar Cycle 23

10:30 - 11:30

Audience Discussion

"Solar Wind-Driver Issues"

Moderator: Chris Russell

11:30 - 12:00 (Invited)

Angelos Vourlidas and Russ Howard

White Light Observations of CMEs in the Heliosphere: Implications for the Upcoming STEREO Mission

Monday, November 6

Session 6

Solar-Wind/Magnetosphere Coupling-2

Chair: Joachim Birn

6:00 - 9:10 p.m.

6:00 - 6:30 (Invited)

A. Vaivads, A. Retinò, Y. Khotyaintsev, L. Rosenqvist, and M. André

The Microphysics of Reconnection

6:30 - 6:50

C. T. Russell

The Response of the Magnetosphere to Solar Wind Drivers

6:50 - 7:50

Audience Discussion

"Solar-Wind/Magnetosphere Coupling Issues"

Moderator: Michelle Thomsen

7:50 - 8:10

Break

8:10 - 8:30

Olivia Enríquez-Rivera, X. Blanco-Cano, Y. Narita, and K. H. Glassmeier

Kinetic dispersion analysis of terrestrial foreshock waves

8:30 - 8:50

Joachim Birn

Asymmetric Reconnection

8:50 - 9:10

Ennio Sanchez

Comparitive Studies of Global Reconnection for Varying Solar-Wind Conditions

Session 7

Geomagnetic Storms-1

Chair: Xochitl Blanco-Cano

8:30 a.m. - 11:50 a.m.

8:30 - 9:00 (Invited)

Vania K. Jordanova

Storm-time Ring Current Development: Recent Observations and Modeling

9:00 - 9:30 (Invited)

W.K. Peterson and Wenlong Liu

The Role of Geogenic (of Earth origin) Ions During Geomagnetic Storms

9:30 - 9:50

N. E. Turner, J. R. Dwyer, and E. J. Mitchell

Energy Transfer and Geoeffectiveness in CIR-Driven and Ejecta-Driven Magnetic Storms

9:50 - 10:10

S. G. Zaharia, V. K. Jordanova, M. F. Thomsen and G. D. Reeves

Modeling of Geomagnetic Storms With Self-consistent Magnetic and Inductive Electric Fields

10:10 - 10:30

Break

10:30 - 11:00 (Invited)

J. Goldstein, B. R. Sandel, and R. A. Wolf

Relative Timing of Nightside and Dayside Plasmasphere Erosion

11:00 - 11:30 (Invited)

B. Lavraud, M. F. Thomsen, V. K. Jordanova, J. E. Borovsky, M. H. Denton, and T. I. Pulkkinen

Magnetosphere Preconditioning by the Formation of a Cold-Dense Plasma Sheet Under Northward IMF

11:30 - 11:50

Martin Connors, Jason Ponto, and Robert L. McPherron

Cross-meridian Currents in Substorms and Sawtooth Events

Tuesday, November 7

Session 8

Turbulence in and around the Magnetosphere

Chair: Alejandro Valdivia

6:00 - 9:10 p.m.

6:00 - 6:30 (Invited)

Z. Voros, W. Baumjohann, R. Nakamura, M. Volwerk, and A. Runov

Turbulence in the Earth's Plasma Sheet

6:30 - 7:00 (Invited)

J.M. Weygand, W.H. Matthaeus, S. Dasso, M.G. Kivelson

Spatial Correlation of Solar Wind Turbulence From Two Point Measurements

7:00 - 8:00

Audience Discussion

"Turbulence and Reconnection Issues"

Moderator: Joachim Birn

8:00 - 8:20

Break

8:20 - 8:50 (Invited)

Alex Klimas, Vadim Uritsky, Daniel Baker, and Maria Kuznetsova

Modeling the Self-Organized Critical State of Earth's Plasma Sheet Reconnection Dynamics

8:50 - 9:10

S. Dasso, W. H. Matthaeus (Bartol Institute, and C.W. Smith

Anisotropies in Solar Wind Fluctuations

Session 9

Geomagnetic Storms-2

Chair: Rogelio Caballero

8:30 - 11:40 a.m.

8:30 - 9:00 (Invited)

Michael Hesse, Lutz Rastaetter, and Sandrik Taktakishvili
Global Modeling of Magnetic Storms: Successes and Challenges

9:00 - 10:00

Audience Discussion

"Geomagnetic-Storm Issues"

Moderator: Dan Baker

10:00 - 10:20

Break

10:20 - 10:50 (Invited)

R. M. Millan, L. A. Woodger, J. G. Sample, R. P. Lin, M. P. McCarthy, and D. M. Smith
Characteristics of Duskside Precipitation during Rapid Depletions of the Radiation Belt Electron Flux

10:50 - 11:10

D. N. Baker, C. E. Randall, C. A. Barth, S. G. Kanekal, C. Saetre, and S. M. Bailey
Observations of Solar Wind-Magnetosphere Coupling and Assessing its Effects on the Earth's Atmosphere

11:10 - 11:30

M. F. Thomsen, E. A. MacDonald, S. P. Gary, and M. H. Denton
Statistical Survey of Storm-Time Whistler-Mode Stability at Geosynchronous Orbit

11:30 - 11:50

Shawn Young

Can Storm-time Increases in Magnetic Field Line Curvature Cause the
Detrapping of the Transient Proton Belts? A Case Study

Wednesday, November 8

Session 10

Solar-Wind Structures-2 and IHY

Chair: Alejandro Lara

2:00 - 5:40 p.m.

2:00 - 2:30 (Invited)

Alisson Dal Lago

Interplanetary Origin of Great Magnetic Storms in Solar Cycle 23

2:30 - 2:50

B. V. Jackson, P. P. Hick, A. Buffington, M. Kojima, and M. Tokumaru

The Extent, Mass and Energy of CME Events in the Interplanetary Medium Using SMEI Thomson Scattering Observations and IPS

2:50 - 3:10

G. Muñoz, J. Cantó, F. González-Fajardo, V. Aguilera,

R. Schwenn

Analysis of Speed for Slow CMEs

3:10 - 3:30

Slow Halo CMES associated to Interplanetary Shocks

C. Becerril, G. Muñoz, R. Schwenn, D. García-García, T. Calalpa

3:30 - 3:50

Break

3:50 - 4:20 (Invited)

Cristina H. Mandrini and Jean-Pierre Raulin

IHY 2007-2008 in Latin America

4:20 - 4:50 (Invited)

Jose Valdes

IHY Activities in Mexico

4:50 - 5:20 (Invited)

J.-P. Raulin

The South American VLF NETwork (SAVNET)

5:20 - 5:40

Americo Gonzalez-Esparza, Armando Carrillo, Ernesto Andrade, Roman Perez-Enriquez, and Stan Kurtz
MEXART: Final Calibration Testings

CONFERENCE DINNER

7:00 -